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1 Effective access to large audiovisual assets based on user preferences
S. Ioannou, G. Moschovitis, K. Ntalianis, K. Karpouzis, S. Kollias
November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, index terms

> Current multimedia databases contain a wealth of information in the form of audiovisual, as well as text data. Even though efficient search algorithms have been developed for either media, there still exists the need for abstract presentation and summarization of the results of database users' queries. Moreover, multimedia retrieval systems should be capable of providing the user with additional information related to the specific subject of the query, as well as suggest other topics which us ...

> **Keywords:** multimedia databases, query expansion, text-based search, user profiling, web access

2 Dynamic video summarization and visualization
Jeho Nam, Ahmed H. Tewfik
October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 2)**

Full text available: pdf(694.81 KB)   Additional Information: full citation, references, citings, index terms

3 An intelligent media browser using automatic multimodal analysis
Jonathan Foote, John Boreczhy, Andreas Girgensohn, Lynn Wilcox
September 1998 **Proceedings of the sixth ACM international conference on Multimedia**

Full text available: pdf(605.45 KB)   Additional Information: full citation, references, citings, index terms

> **Keywords:** automatic analysis, content-based retrieval, skimming, spacker identification, video, visualization

4 Hypertext-assisted video indexing and content-based retrieval
Horace Ho-Shing Ip, Siu-Lok Chan

April 1997 **Proceedings of the eighth ACM conference on Hypertext**

Full text available: pdf(209.23 KB)   Additional Information: full citation, references, citings, index terms

Keywords: content-based retrieval, educational video system, video indexing, video segmentation

5 Video parsing, retrieval and browsing: an integrated and content-based solution

H. J. Zhang, C. Y. Low, S. W. Smoliar, J. H. Wu

January 1995 **Proceedings of the third ACM international conference on Multimedia**

Full text available: htm(51.17 KB)   Additional Information: full citation, references, citings, index terms

Keywords: database, multimedia, video browsing, video indexing, video parsing, video retrieval

6 Designing multimedia: Dynamic key frame presentation techniques for augmenting video browsing

Tony Tse, Gary Marchionini, Wei Ding, Laura Slaughter, Anita Komlodi

May 1998 **Proceedings of the working conference on Advanced visual interfaces**

Full text available: pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings

Because of unique temporal and spatial properties of video data, different techniques for summarizing videos have been proposed. Key frames extracted directly from video inform users about content without requiring them to view the entire video. As part of ongoing work to develop video browsing interfaces, several interface displays based on key frames were investigated. Variations on dynamic key frame "slide shows" were examined and compared to a static key frame "filmstrip" display. The slide ...

Keywords: display rate, divided attention, dynamic displays, interface design, key frames, representations, video browsing

7 Modeling one- and two-layer variable bit rate video

Kavitha Chandra, Amy R. Reibman

June 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 3

Full text available: pdf(265.12 KB)   Additional Information: full citation, references, citings, index terms

Keywords: MPEG2, VBR video, multiplexing, traffic model, two-layer

8 VideoQ: an automated content based video search system using visual cues

Shih-Fu Chang, William Chen, Horace J. Meng, Hari Sundaram, Di Zhong

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available: pdf(1.67 MB)   Additional Information: full citation, references, citings, index terms

9

Abstracting home video automatically

Rainer Lienhart
October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 2)**
Full text available: pdf(258.77 KB)   Additional Information: full citation, references, citings, index terms

Keywords: audio content analysis, shot clustering, text recognition, text segmentation, video abstracting, video content analysis

10 Topic labeling of broadcast news stories in the informedia digital video library
Alexander G. Hauptmann, Danny Lee
May 1998 **Proceedings of the third ACM conference on Digital libraries**

Full text available: pdf(266.27 KB) Additional Information: full citation, references, citings, index terms

11 Interactive tools for constructing and browsing structures for movie films
Riad Hammoud, Roger Mohr
October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available: pdf(273.66 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a prototype for constructing, browsing and using structures for movie films based on content image analysis only. The goal of the structuring is to facilitate the user's access to the video content (non-linear navigation, etc.). Our prototype provides for the "editor user" advanced tools for structuring the video at its low-level (e.g. shots, key-frames) and high-level structures (e.g. groups of objects, scenes). Also, it provides for the "end user&rdqu ...

Keywords: groups/scenes, interactive videos, video structuring

12 The CHI '95 conference electronic publication: introduction to an experiment
Robert Mack, Linn Marks, Dave Collins, Keith Instone
April 1996 **ACM SIGCHI Bulletin**, Volume 28 Issue 2

Full text available: pdf(1.57 MB)   Additional Information: full citation, index terms

13 VideoTrails: representing and visualizing structure in video sequences
Vikrant Kobla, David Doermann, Christos Faloutsos
November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available: pdf(2.03 MB)   Additional Information: full citation, references, citings, index terms

14 HyPursuit: a hierarchical network search engine that exploits content-link hypertext clustering
Ron Weiss, Bienvenido Vélez, Mark A. Sheldon
March 1996 **Proceedings of the the seventh ACM conference on Hypertext**

Full text available: pdf(2.00 MB)   Additional Information: full citation, references, citings, index terms

15

Cumulating and sharing end users knowledge to improve video indexing in a video
digital library
Marc Nanard, Jocelyne Nanard
January 2001 **Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(250.01 KB)   Additional Information: full citation, abstract, references, citings, index
                                                                              terms

In this paper, we focus on a user driven approach to improve video ind exing. It consists in
cumulating the large amount of small, individual efforts done by the users who access
information, and to provide a community management mechanism to let users share the
elicited knowledge. This technique is currently being developed in the "OPALES"
environment and tuned up at the "Institut National de l'Audiovisuel&r dquo;(INA), a
National Video Library in Paris, to increase the v ...

Keywords: knowledge sharing, private workspaces, users communities, video annotation,
video indexing

16 Information retrieval on the web
Mei Kobayashi, Koichi Takeda
June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2

Full text available: pdf(213.89 KB)   Additional Information: full citation, abstract, references, citings, index
                                                                              terms

In this paper we review studies of the growth of the Internet and technologies that are
useful for information search and retrieval on the Web. We present data on the Internet
from several different sources, e.g., current as well as projected number of users, hosts,
and Web sites. Although numerical figures vary, overall trends cited by the sources are
consistent and point to exponential growth in the past and in the coming decade. Hence it is
not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval,
knowledge management, search engine

17 Experiments with digital video playback
Richard Gerber, Ladan Gharai
May 1996 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1996
          ACM SIGMETRICS international conference on Measurement and modeling
          of computer systems**, Volume 24 Issue 1
Full text available: pdf(1.25 MB)   Additional Information: full citation, abstract, references, index terms

In this paper we describe our experiments on digital video applications, concentrating on
the static and dynamic tradeoffs involved in video playback. Our results were extracted
from a controlled series of 272 tests, which we ran in three stages.In the first stage of 120
tests, we used a simple player-monitor tool to evaluate the effects of various static
parameters: *compression type, frame size, digitized rate, spatial quality* and *keyframe
distribution.* The tests were carried out ...

18 Video abstracting
Rainer Lienhart, Silvia Pfeiffer, Wolfgang Effelsberg
December 1997 **Communications of the ACM**, Volume 40 Issue 12

Full text available: pdf(2.51 MB)   Additional Information: full citation, references, citings, index terms

19 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

20 Video summarization by curve simplification

Daniel DeMenthon, Vikrant Kobla, David Doermann

September 1998 **Proceedings of the sixth ACM international conference on Multimedia**

Full text available: pdf(901.04 KB)   Additional Information: full citation, references, citings, index terms

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1 **On CDMA with space-time codes over multipath fading channels**
Damen, M.O.; Safavi, A.; Abed-Meraim, K.;
Wireless Communications, IEEE Transactions on , Volume: 2 , Issue: 1 , Jan. 2003
Pages:11 - 19

[Abstract]   [PDF Full-Text (748 KB)]   **IEEE JNL**

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2 **Blind adaptive reduced-rank detection for DS-CDMA signals in multipath channels**
Yu Song; Roy, S.;
Selected Areas in Communications, IEEE Journal on , Volume: 17 , Issue: 11 , Nov. 1999
Pages:1960 - 1970

[Abstract]   [PDF Full-Text (388 KB)]   **IEEE JNL**

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3 **Combining static and dynamic features using neural networks and edge fusion for video object extraction**
Kim, J.; Chen, T.;
Vision, Image and Signal Processing, IEE Proceedings- , Volume: 150 , Issue: 3 , 20 June 2003
Pages:160 - 167

[Abstract]   [PDF Full-Text (911 KB)]   **IEE JNL**

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4 **Generating optimal video summaries**
Yihong Gong; Xin Liu;
Multimedia and Expo, 2000. ICME 2000. 2000 IEEE International Conference on , Volume: 3 , 30 July-2 Aug. 2000
Pages:1559 - 1562 vol.3

[Abstract]   [PDF Full-Text (384 KB)]   **IEEE CNF**

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5 **Video summarization using singular value decomposition**
Yihong Gong; Xin Liu;
Computer Vision and Pattern Recognition, 2000. Proceedings. IEEE Conference on , Volume: 2 , 13-15 June 2000
Pages:174 - 180 vol.2

[Abstract]   [PDF Full-Text (352 KB)]   **IEEE CNF**

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6 **Probabilistic space-time video modeling via piecewise GMM**
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Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume:
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7 **Multiresolution sequence detection in rapidly fading channels based on focused wavelet decompositions**
Martone, M.;
Communications, IEEE Transactions on , Volume: 49 , Issue: 8 , Aug. 2001
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8 **Blind adaptive detection of DS/CDMA signals on time-varying multipath channels with antenna arrays using high-order statistics**
Martone, M.;
Communications, IEEE Transactions on , Volume: 48 , Issue: 9 , Sept. 2000
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9 **Optimal control of perturbed linear static systems**
Smith, R.; Packard, A.;
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10 **Krylov subspace algorithms for space-time oceanography data assimilation**
Schneider, M.K.; Willsky, A.S.;
Geoscience and Remote Sensing Symposium, 2000. Proceedings. IGARSS 2000.
IEEE 2000 International , Volume: 2 , 24-28 July 2000
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11 **Human facial expression recognition based on learning subspace method**
Xilin Chen; Kwong, S.; Yan Lu;
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Pages:403 - 406 vol.1

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12 **Neural techniques for ST-T change detection**

Silipo, R.; Marchesi, C.;
Computers in Cardiology 1996 , 8-11 Sept. 1996
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[Abstract]   [PDF Full-Text (324 KB)]   **IEEE CNF**

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13 **A pattern classification approach to dynamical object detection**
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Computer Vision, 1999. The Proceedings of the Seventh IEEE International
Conference on , Volume: 2 , 20-27 Sept. 1999
Pages:1223 - 1228 vol.2

[Abstract]   [PDF Full-Text (184 KB)]   **IEEE CNF**